Institute News

73rd Republic Day Celebration

NIT Raipur joined the Nation in celebrating the 73rd Republic Day on 26th January 2022 with great zeal and patriotism, while following all the preventive measures of COVID-19 pandemic. Commemorating this historic day**, Dr. A. M. Rawani**, *Director, NIT Raipur* unfurled the tricolour flag, followed by the National Anthem. The celebration based on the theme **'Azadi Ka Amrit Mahotsav'** was broadcasted live on the Institute's website and official social media handles like YouTube, Facebook, and Instagram. While addressing the gathering and the online viewers, the Director, NIT Raipur remembered the two martyrs from the Institute **Lt. Arvind Shankar Dixit** and **Lt. Pankaj Vikram,** who sacrificed their lives for our nation.

The director also apprised the audience about the installation of the digital display boards in the institute building, which will be used in place of plastic banners and posters for disseminating information regarding the conferences, seminars, training programs, etc, as one more step towards protecting the environment. Further, he also apprised the audience about the installation of 490-kW capacity solar power plant in the campus to promote use of renewable energy.

Highlighting the future perspectives of the Institute, he informed about the commencement of the Master of Science (MSc.) programs under the science streams of Physics, Chemistry and Mathematics from the session 2022-23 as recommended by the Senate. To further strengthen the research environment, the Honourable Director initiated the organizing of **Annual Research Scholars'** Conclave for Ph.D. scholars of the Institute to present their research findings. He also emphasized on skill development of students through **Refresher courses for Skill development** and to strengthen the ecosystem for placement, he initiated the organizing of **Annual Recruiters' Conclave**. In order to acknowledge the contributions of the non-teaching

employees, he announced the initiation of the **Employee of the Quarter Award**. Several other initiatives like **Biannual Parents' Meet** and **training program on Practical Aspects of Intellectual Property Rights** were also announced by the Director on this occasion.

District Green Champion 2021-22

NIT Raipur has been recognized as the **District Green Champion for Raipur District, Chhattisgarh** for the Academic Year 2021-22 by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India on 12th Mar., 2022. The Institution has successfully elevated the Swachhta Action Plan, adopted, and implemented best practices in the areas of Sanitation, Hygiene, Waste Management, Water Management, Energy Management and Greenery Management.

Under the adroit leadership of **Prof. A. M. Rawani**, *Director, NIT Raipur*, various endeavours like installation of the solar power plant, installation of rainwater harvesting structures, elimination of single-use plastic and flower bouquets, development of souvenir garden for plantation of saplings gifted to guests, etc. have been implemented in the recent years in order to create a green environment-friendly campus. This recognition as the District Green Champion will further add encouragement and impetus to the Institute to remain committed to Swachhta activities in the campus and district at large.

Inauguration of New Apartments

Two newly constructed apartments at the **NIT Raipur** campus: **Satpura** and **Vindhyachal**, were inaugurated by **Dr. A. M. Rawani**, *Director, NIT Raipur*, on 2nd Feb., 2022. The construction of these two G+6 Storey apartments consisting of

48 flats was carried out by **CPWD** to be used as the residential quarters for the employees of the Institute. During the inaugural ceremony, **Dr. Arif Khan**, *Registrar*, **Dr. R. K. Tripathi**, *Dean, Planning and Development*, **Mr. Y. Nayak**, *Chief Engineer, CPWD Raipur,* **Mr. S. R. Sahu**, *Executive Engineer, CPWD Raipur*, **Mr. P. Limje**, *Assistant Engineer (Civil), CPWD Raipur* and **Mr. N. K. Kashyap**, *Assistant Engineer (Electrical), CPWD Raipur* were also present.

Inauguration of Dr. A. P. J. Abdul Kalam Hall

Dr. A. P. J. Abdul Kalam Hall was inaugurated by **Dr. A. M. Rawani**, *Director, NIT Raipur,* on 2nd Feb., 2022. This is a newly constructed Yoga Classroom-cum-Multipurpose Hall, which will be used for various purposes. On the same day, the renovated classrooms were also inaugurated by **Dr. A. M. Rawani**, *Director, NIT Raipur.*

MoU between NIT Raipur and CPWD

NIT Raipur signed an MOU with **CPWD** on 2nd Feb., 2022 for the execution of the projects sanctioned under the EWS scheme to accommodate/facilitate the increased requirements for the enhanced intake of students due to EWS reservation.

Employee of the Quarter Award

In order to motivate the non-teaching employees of the Institute and recognize their contributions towards the Department and the Institute, **Dr. A. M. Rawani**, *Director, NIT Raipur* initiated the Employee of the Quarter Award on 26th Jan., 2022. In this regard, award nominations for the first quarter of 2022 were invited by Dean (Faculty Welfare) from the employees through proper channel by 25th Mar., 2022. For the first quarter from January 2022 to March 2022, Mr. **Hingeshwar Sahu,** *Laboratory Assistant, Department of Chemical Engineering* has been awarded as the Employee of the Quarter. Team MIRROR congratulates him on this recognition.

Brainstorming Session on Implementation of NEP 2020

Aiming to implement the **National Education Policy (NEP) 2020** into the ordinances of NIT Raipur, **Dr. A. M. Rawani,** *Director, NIT Raipur,* announced theme-based monthly brainstorming sessions on the various chapters of NEP 2020 on 15th Aug., 2021. Fifth session was conducted on 'Optimal Learning Environments and Support for Students' on 21st Jan. 2022 convened by **Dr. R. K. Jade**, *Associate Professor, Mining Engineering*. The sixth session was conducted on 'Motivated, Energized and Capable Faculty, Teacher Education and Professional Education' on 28th Feb., 2022. The convenor for this session was **Dr. A. Khare**, *Associate Professor, Department of Physics (DOP)*.

Institute Lecture Series

Department of Chemistry (DOC) organized the **Institute Lecture Series** on 18th Dec., 2021. The distinguished speaker for the session was **Dr. S. S.Umare,** *Professor, HAG, VNIT Nagpur,* who delivered a lecture on *Green Chemistry Education and Environmental Sustainability.*

Department of Physics (DOP) organized the **Institute Lecture Series** on 15th Jan., 2022. The distinguished speaker for the session was **Dr. S. P. Singh,** *Principal Scientist CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad*, who delivered a lecture on *Materials and Molecules: New Technological Development in Organic Solar Cells.*

Department of Mathematics (DOM) organized the **Institute Lecture Series** on 26th Feb., 2022. The distinguished speaker for the session was **Dr. T. Jain,** *Associate Professor, Indian Statistical Institute (ISI), Delhi,* who delivered a lecture on *A Journey from Finite to Infinite.*

Department of Chemical Engineering (DCE) organized the **Institute Lecture Series** on 26th Mar., 2022. The distinguished speaker for the session was **Dr. S. De,** *Professor, Department of Chemical Engineering, IIT Kharagpur,* who delivered a lecture on *Translation of Indigenous Technologies from the Lab to Field.*

Student Welfare Fund

NIT Raipur created **a Student Welfare Fund** from the unclaimed caution money amount, which can be utilized for full tuition fee reimbursement of students belonging to Economically Backward Sections and for Emergency Medical Assistance. Full tuition fee reimbursement from the Student Welfare Fund was awarded to 4 Students for the academic session 2021-22.

Student Online Edutainment Sessions

To motivate the students and uplift their morale in the difficult time of COVID-19 pandemic, NIT Raipur under the adroit guidance of Director **Dr A. M. Rawani,** is organising Online Edutainment Sessions for students of various semesters continuously. In this line the program of Edutainment is being organised by all the departments in coordination with respective Departmental Student's Associations. The session provides a platform to the students to discuss their academic and non-academic issues in an informal manner.

Compassionate Appointments

It was deeply saddening that **Dr. (Mrs.) Kesari Verma**, *Associate Professor, Department of Computer Applications* and **Shri. Shiv Prasad Sahu**, *Senior Technician, Department of Civil Engineering* had passed away in April 2021 due to the COVID-19 pandemic while in service of the institute. The Board of the Institute considered the requests received from their family members and resolved to offer compassionate appointments to **Dr. L. K. Verma**, *Dependent family member (Husband) of Late Dr. Kesari Verma, as Senior Technician* and to **Mr. V. Sahu**, *Dependent family member (Son) of Late Shiv Prasad Sahu, as Senior Technician*. Accordingly, the appointment letters have been issued by the institute to the concerned in March 2022.

Academic Activities

STTP/Conference/Workshop conducted

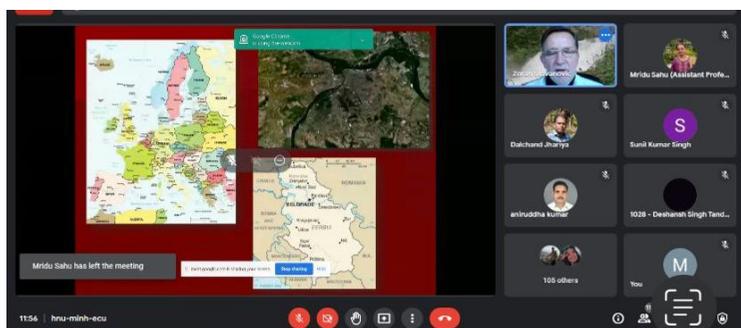## 2ⁿᵈ International Conference on Materials and Technologies 2022

Department of Materials and Mining Engineering (DMME) and the **Department of Mechanical Engineering (ME)** jointly organized the 2ⁿᵈ international conference on **Materials and Technologies (MATERIALTECH 2022)** online on 28ᵗʰ and 29ᵗʰ Jan., 2022. **Dr. M. K. Manoj,** *HoD, DMME* chaired the conference, and **Dr. N. V. S. Naidu,** *Associate Professor, ME,* **Dr. N. Gupta,** *Assistant Professor, DMME,* and **Dr. Jagadish,** *Assistant Professor, ME* were the organizing secretaries. **Dr. K. Gupta,** *Professor, University of Johannesburg, South Africa* and **Dr. R. N. Chouhan,** *Scientist, JNARDDC Nagpur, India,* delivered the keynote lectures.

International Conference on Applications of Intelligent Computing in Engineering and Science 2022

Department of Applied Geology (DAG), Department of Information Technology (IT), and **Department of Biomedical Engineering (BME)** conducted the IOP International Conference on **Applications of Intelligent Computing in Engineering and Science (AICES)-2022** on 12ᵗʰ and 13ᵗʰ Feb., 2022, in virtual mode. **Dr. A. Khan,** *Registrar, NIT Raipur* was the Chairman of this conference, while **Dr. D. C. Jhariya,** *Assistant Professor, DAG,* **Dr. M. Sahu,** *Assistant Professor, IT* and **Dr. B. K. Singh,** *HoD, BME,* acted as the Secretaries. Chief Guests were Dr. **J. Sharma**, *Chief of Medical Services and Senior Consultant at Balco Medical Centre, Raipur* and **Dr. G. R. Sinha**, *Professor,MIIT Mandalay, Myanmar.* The keynote speechs were delivered by **Dr. H. Nisar**, *Associate Professor, University of Tunku Abdul Rahman, Malaysia* and Dr. **N. Sharma**, *Professor and Coordinator, the School of Bio-Medical Engineering, IIT (BHU).*

2ⁿᵈ International Conference on Advances in Earth and Environmental Studies 2022

The 2ⁿᵈ International Conference on **Advances in Earth and Environmental Studies (AEES 2022),** organized jointly by the **Department of Applied Geology (DAG)**, the **Department of Civil Engineering (CE)** and the **Department of Information Technology (IT)** was virtually conducted at NIT Raipur on 25ᵗʰ and 26ᵗʰ Feb, 2022. The chairperson of the conference was **Dr. N. Vishwakarma,** *HOD, DAG.* The organizing secretaries for the conference were **Dr. D. C. Jhariya**, *Assistant Professor, DAG*, **Dr. M. Sahu,** *Assistant Professor, IT,* and **Dr. A. V. Ahirwar**, *Assistant Professor, CE.* The chief guest was **Dr. S. K. Singh**, *Director, NIO Goa,* who delivered a keynote speech

with **Dr. Y. S. Katpatal,** *Professor, VNIT Nagpur,* and **Dr. A. Kumar**, *IIRS Dehradun*. **Dr. Shalivahan,** *Joint Director, IIT ISM Dhanbad*, was also the chief guest. All accepted papers of AEES 2022 will be published **as a conference series** in the Scopus indexed **IOP Journal of Earth and Environmental Science.**

1st International Conference on Applied Computational Intelligence and Analytics 2022

Department of Information Technology (IT) organized the 1st International Conference on **Applied Computational Intelligence and Analytics (ACIA-2022)** in virtual mode on 26th and 27th Feb., 2022. **Dr. S. P. Sahu,** *Assistant Professor, IT*, was the conference chairman. The organizing secretaries were **Dr. R. Tripathi**, **Dr. G. P. Gupta,** and **Dr. T. P. Sahu,** *Assistant Professors, IT*. The keynote speech was delivered by **Prof. R. Buyya**, *Director, Cloud Computing and Distributed Systems (CLOUDS) Lab, University of Melbourne, Australia*, and **Dr. D. Patel,** *Senior Research Staff Member, IBM Thomas J. Watson Research Center, New York USA*.

International Conference on Computational Intelligence and Network Security 2022

Department of Computer Science & Engineering (CSE), NIT Raipur organised a two-day online International Conference on **Computational Intelligence and Network Security (ICCINS-2022)** on 3rd and 4th Mar., 2022. **Dr. D. S. Sisodia**, *HoD, CSE,* was the organising Chairman, whereas **Dr. K. J. Naik** and **Dr. P. Chandrakar**, *Assistant Professors, CSE,* were the organising secretaries of the conference. **Prof. B. N.**

Tiwari, *Dean (Interdisciplinary Education and Research), Guru Ghasidas Vishwavidyalaya* and **Dr. A. Karate,** *National SUN Yat Sen University, Taiwan,* acted as the Chief Guests for the event. The keynote speakers were **Prof. K. Mohiuddin**, *King Khalid University, Saudi Arabia*, and **Prof. R. Balasubramanian**, *IIT, Roorkee, India.*. Selected papers will be submitted for publication in the American Institute of Physics (AIP) conference proceedings.

2nd IEEE International Conference on Power, Control, and Computing Technologies 2022

The 2nd IEEE International Conference on **Power, Control, and Computing Technologies (ICPC²T-2022)** was organized in virtual mode at NIT Raipur, from 1st to 3rd Mar., 2022. **ICPC²T** was co-sponsored by **IEEE Bombay Section, IEEE Student**

Section, NIT Raipur** and **IEEE Industry Applications Society**, **Chhattisgarh.** The three-day conference concluded with six keynote speeches and 17 technical sessions for deliberation on accepted papers. **Dr. N. D. Londhe,** *General Chair, and HoD, EE,* deliberated on the objective of ICPC²T, which was to give a platform to the students, academicians, researchers, scientists, and engineers to share knowledge on recent trends, and theories. **Dr. T. Thakur**, *Director General, National Power Training Institute,* was the chief guest of the inauguration ceremony and **Dr. P. Diwan**, *Dean Research & Consultancy*, *NIT Raipur*, was the guest of honour of the opening ceremony. Keynote speeches were delivered by **Dr. S. Y. Yayilgan,** *Department of Information Security and Communication Technology, Norwegian University of Science and Technology, Norway,* **Dr. R. G. Wandhare,** *Department of Electrical Engineering, IIT Hyderabad,* **Dr. Jih-Sheng (Jason) Lai**, *Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, USA,* **Dr. D. Kumar,** *Global Research and Development Center, Denmark.*

International Conference on Machine Intelligence and Signal Processing 2022

Department of Computer Science and Engineering (CSE), NIT Raipur, organised the 4th International Conference on **Machine Intelligence and Signal Processing (MISP 2022)** from 12th to 14th Mar., 2022, in virtual mode. **Dr. D. S. Sisodia**, *HoD, CSE,* was the Chairperson. **Dr. P. Singh, Dr. V. Anand** and **Dr. D. Singh**, *Assistant Professors, CSE,* were the Organizing Secretaries. The Chief Guest of the event was **Dr. D. B. Phatak**, *Padma Shri, Professor Emeritus, IIT Bombay*. The Honorary Chairs were **Prof. R. Buyya,** *University of Melbourne,* **Prof. P. K. Sinha,** *IIIT Naya Raipur* and **Prof. S. L. Peng**, *National Taipei University of Business, Taiwan*. The Keynote speeches were delivered by **Prof. L. Garg**, *University of Malta,* **Prof. R. B. Pachori**, *IIT Indore,* **Prof. H. Wang,** *Queen's University Belfast*, **Ms. K. Khatter**, *Editor, Applied Sciences and Engineering, Springer Nature* and **Dr. Y. Nene**, *MD Anaesthesiology, AIIMS Raipur* and *Regional Medical Officer, Food Corporation of India.* During the conference, a total of 152 papers were presented in 30 sessions. The authors from various Indian states and many other countries such as Russia, Nepal, Bangladesh, Nigeria, Morocco etc., shared their research work during the presentations.

International Conference on Applied Mechanics, Machine Learning and Advanced Computation 2022

Department of Mechanical Engineering (ME) and **Department of Computer Science and Engineering (CSE)**, NIT Raipur organised a two-day virtual International Conference on **Applied Mechanics, Machine Learning and Advanced Computation (AMMLAC) 2022** from 16th to 17th Mar., 2022. The program started with an inaugural ceremony chaired by the **Dr. S. Sanyal**, *HoD, ME* and the chief guests, **Dr. Prabhat Diwan**, *Dean, Research & Consultancy* and **Dr. S. Bhatia**, *Assistant Professor, King Faisal University, Saudi Arabia.* The conference Secretaries were **Dr. R. S. Kumar** and **Dr. N. Netam** *Assistant Professors, ME,* and **Dr. A. Sharaff**, *Assistant Professor, CSE.* Faculty Members and Research Scholars from IITs, NITs, and other reputed institutes shared their findings at this conference. **Dr. S. Bhatia** delivered a keynote lecture on *Information Retrieval using Sentiment Analysis.*

International Conference on Smart Materials and Applications 2022

Department of Physics (DoP), NIT Raipur, organised the First International Conference on **Smart Materials and Applications' (SMA-2022)** from 25th to 26th Mar., 2022, in virtual mode. **Dr. S. Agrawal**, *HoD, DoP,* was the Chairperson. **Dr. B. K. Sahoo, Dr. S. M. Saini,** and **Dr. A. Khare**, *Associate Professors, DoP,* were the Organizing Secretaries. **Dr. G. J. Omar**, *Research Scientist, National University of Singapore, Singapore*, was the keynote speaker of the conference. The expert talks in technical sessions were delivered by **Dr. B. R. K. Nanda**, *Professor, Department of Physics, IIT Madras*, and **Dr. C. Dash**, *Research Scientist & Co-founder, Perosol, University of Stuttgart, Germany*. Around 50 research experts from various parts of the country and abroad have participated in the event and presented their recent research work.

STTP on Practical Aspects of Intellectual Property Rights

IPR Cell NIT Raipur, along with the **Cell for IPR Promotion and Management (CIPAM)**, Govt. of India, organised a three-day online Short Term Training Program (STTP) on *Practical Aspects of Intellectual Property Rights (PAIPR-2022)* from 7th Feb. to 9th Feb., 2022. The experts from CIPAM delivered lectures on topics like prior art search for patents, patent drafting procedures, IP commercialisation, and patent filing process: Indian and PCT routes. Faculty members and PhD students of the Institute attended the program. The event was coordinated by **Dr. S. Ghosh**, *Chairperson*, *IPR Cell*.

STTP on Data Science and Hydrogeological Studies

Department of Information Technology (IT) and the **Department of Applied Geology (DAG)** jointly organised a one-week self-sponsored STTP on *Data Science and Hydrogeological Studies* from 16th to 20th Feb. 2022. **Dr. A. Kumar,** *Senior Scientist, IIRS-ISRO,* was the chief guest of the event. The program was organised by **Dr. R. Tripathi**, *HoD, IT* and **Dr. N. Vishwakarma**, *HoD, DAG,* while the course coordinators of the program were **Dr. M. Sahu**, *Assistant Professor, IT* and **Dr. D. C. Jhariya,** *Assistant Professor, DAG.* In this 5th day program, a special session on yoga and meditation was organised by **Dr. R. Choudhary,** *Professor, Physical Education, Dean(SW), Head, Law Department, Pt. Ravishankar Shukla University, Raipur (C.G.).*

FDP on Data Science and Its Applications

Department of Computer Science and Engineering (CSE) in association with **Electronics & ICT Academy, NIT Warangal,** organised an online Faculty Development Programme (FDP) on **Data Science and Its Applications** from 10th to 19th Jan., 2022. The academy of E&ICT was set up at NIT Warangal with financial assistance from MeitY, GoI.. The program, which was inaugurated by **Dr. A. B. Soni**, *Dean, Faculty Welfare* and **Dr. D. S. Sisodia**, *HoD, CSE,* and was coordinated by **Dr. A. Sharaff**, *Assistant Professor, CSE, NIT Raipur* and **Dr. S. K. Panda**, *Assistant Professor, CSE, NIT Warangal.*

Webinar on Paints

Department of Architecture (DOA) organised a webinar on 8th Feb. 2022, in collaboration with **Berger Paints Company**. The webinar was organised under the guidance of **Dr. S. Sthapak**, *HoD, DOA*, **Ms. S. Sahu,** *Assistant Professor, DOA,* and **Mr. S. Jaiswal,** *Temporary Faculty, DOA*. The keynote speaker was **Mr. S. Sharma,** *Training Officer Delhi Circle, Berger Paints.*

Expert Lectures Delivered by Director, NIT Raipur

- **Dr. A. M. Rawani**, *Director, NIT Raipur* delivered an invited talk as a Speaker on the topic *National Education Policy (NEP): Approach, Opportunities and Challenges* on 24th Mar., 2022 in the **23rd World Education Summit** organized virtually by **Elets Technomedia Pvt. Ltd.**

Expert Lectures Delivered by Institute Faculty/Staff

- **Dr L. Yadu,** *Associate Professor, CE,* delivered an expert lecture on *Laboratory and its Facilities: How to Manage?* during Multidimensional Training of Non-Teaching staff for Enrichment in Working Capability and Well-being, which was organised by **Shri Shankaracharya Institute of Professional Management and Technology Raipur C.G.** on 16th Dec., 2021.

- **Mr. V. Agnihotri**, *Assistant Professor, DOA,* delivered an expert lecture on *Efficacy of Master Plans in Achieving SDG* during a faculty development program organised by **Amity School of**

Planning and Architecture, Amity University, Jaipur on 4th Jan., 2022.

- Dr. D. Sanyal, *Associate Professor, DOA,* delivered an expert lecture on *Building Intelligence and Smart Cities* during a two-Day Workshop on Building Intelligence and Smart Cities, organised by Kavikulguru Institute of Technology and Science, Ramtek from 8th to 9th Jan., 2022.
- Dr. A. Sharaff, *Assistant Professor, CSE* delivered an expert lecture on *Exploratory Data Analysis* during the Data Science and its Applications organised by the E & ICT, NIT Warangal and NIT Raipur on 11th Jan., 2022.
- Dr. A. Sharaff, *Assistant Professor, CSE* delivered an expert lecture on *Natural Language Processing* during the FDP on Data Science and its Applications organised by the E & ICT, NIT Warangal and NIT Raipur on 16th Jan., 2022.
- Dr. A. Khare, *Associate Professor, Department of Physics (DOP),* delivered an expert lecture on *Solar Cells: Fundamentals, Present Status and Future Aspects* during the Atal Academy Online Elementary FDP on Optoelectronics: Advanced Materials Devices organised by the Shri Shankaracharya Technical Campus, Bhilai on 2nd Feb., 2022.
- Dr. A. Khare, *Associate Professor, DOP,* delivered an expert lecture on *Guidelines for Hostel Wardens and Hostel Staff Management* during the Non-Teaching Staff Training Programme (NTSTP-IV) organised by the Chhattisgarh Swami Vivekanand Technical University, Bhilai, on 25th Feb., 2022.
- Dr. A. Yadav, *Associate Professor, EE,* delivered an invited talk as a Panelist on the topic *Life is all about balance - One Heart... Many Roles* on 8th Mar., 2022 in the International Women's Day celebration, organised virtually by IEEE PES SBC National Institute of Technology Calicut.
- Dr L. Yadu, *Associate Professor, CE,* delivered an expert lecture on *Managing Lab and It's Facilities* during Expansion of Performance Potential of Officers and Staff for continuous Advancements of Academic Institutions, which was organised by Chhattisgarh Swami Vivekanand Technical University Bhilai C.G. on 8th Mar., 2022.

Research Frontier

Awards, Recognition, and Fellowships

- Dr. A. Bandyopadhyay, *Professor, DOA,* has been selected as the Editor-in-Chief of the esteemed journal known as International Journal of Town Planning and Management by The JournalsPub.
- Dr. A. Yadav, *Associate Professor, EE,* is nominated as *Guest of Honour* at the IEEE SRMCEM Women in Engineering affinity group inaugural Celebration, which was organised by RMCEM Lucknow in Collaboration with the IEEE UP.
- Dr. A. Sharaff, *Assistant Professor, CSE,* acted as a *Session Chair* at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2022) held virtually on 23rd Feb., 2022 at Institute of Engineering & Management, Kolkata.
- Dr. M Sahu, *Assistant Professor, IT* and Dr. B. K. Singh, *Assistant Professor, DBM* has won the Best Paper Award in the track Advancements in Communication and Signal Processing in the IEEE International Conference on Technology, Research & Innovation for Betterment of Society (TRIBES-2021) held from 17th to 19th Dec., 2021 at IIIT Naya Raipur.

Patents

- Dr. S. Pattnaik, *Assistant Professor*, *EE, NIT Raipur* and Dr. M. V. Aware, *Professor, EE, VNIT Nagpur* have been granted the Patent on Development of Piezo- wheel for Electric Vehicle by Intellectual Property India, Govt. of India on 2nd Feb., 2022 for the term of 20 years from the 27th Oct., 2014.
- Dr. S. V. Deo, *Associate Professor, CE* and Dr. M. V. Raut, *PhD Scholar, CE*, filed a patent titled Process for Preparation of Concrete Mix Using Fly Ash and Glass Fiber on 5th Nov., 2019, which was granted by the Patent office Government of India on 24th Mar., 2022.
- Dr. L. Yadu, *Associate Professor, CE* and Dr. T. Rajak, *PhD Scholar, CE*, filed a patent titled Composition and process for the preparation of Sub-Base Material for Mine Haul Road Construction on 1st Dec., 2019 which was granted by the Patent office Government of India on 8th Mar., 2022.
- Dr. S. Sthapak, *Associate Professor, DOA*, along with other researchers filed a patent titled Tourism as a Development Strategy in Micro Regions of India was filed on 24th Feb., 2022 which was published by Controller General of Patents, Designs & Trademarks, Govt. of India on 11th Mar. 2022.

Research Projects

Sponsored Projects

- The project titled *Time Delay and Disease Effects on the Dynamics and Stability of the Ecological Systems: Mathematical Modelling, Controlling, Prediction, Application and Management* by Dr. S. N. Raw, *Assistant Professor, Department of Mathematics* has been sanctioned by the Science & Engineering Research Board (SERB), Department of Science and Technology, Government of India Rs. 6,60,000/-.

- The project titled *Assessment of seasonal hydrological interactions of Kharun river with groundwater in Raipur City, Chhattisgarh: Implications to the vulnerability of sustainable water supply* by **Dr. D. C. Jhariya,** *Assistant Professor, DAG* has been sanctioned by the Science & Engineering Research Board (SERB), Department of Science and Technology, Government of India Rs. 45,87,264/-
- The project titled *Development of CADx System for Psoriasis Area and Severity Index (PASI) Measurement of Psoriasis Patients from 2D Digital Images* by **Dr. N.D. Londhe,** *Associate Professor, EE* has been sanctioned by the Science & Engineering Research Board (SERB), Department of Science and Technology, Government of India Rs. 34,96,537/-.
- The project titled *Development High Throughput digital Metallography Tool for Analysis Steel Microstructure using Artificial Intelligence* by **Dr. Subhas Ganguly** and **Dr. S. K. Sinha,** *Assistant Professors, DMME* has been sanctioned by the Science & Engineering Research Board (SERB), Department of Science and Technology, Government of India Rs. 29,81,264/-.
- The project titled *Development of a Framework for Successful Knowledge Management Implementation in Steel Industry in Developing Countries* by **Dr. S. Mukti,** *Assistant Professors, ME* has been sanctioned by the Science & Engineering Research Board (SERB), Department of Science and Technology, Government of India Rs. 13,53,648/-.
- The project titled *Developing a map plan to support children return to school in identified villages and skill development of youth of select areas* by **Dr. A. K. Tiwari,** *Associate Professors, DHSS* has been sanctioned by the RK Foundation Rs. 1,43,000/-.
- The project titled *Growth demand and projection analysis of herbal products* by **Dr. D. Sharma,** *Assistant Professors, Department of Mathematics* has been sanctioned by WPA Pvt. Ltd. Rs. 1,20,000/-.

PhD Thesis Defended

- **Ms. Shraddha Chauhan** defended her PhD thesis titled *Development of Biosensing Tool for Arsenic Detection* on 17th Dec., 2021, under the supervision of **Dr. L.S.B. Upadhyay,** *Assistant Professor, Department of Biotechnology(DBT).*
- **Mr. Saurabh Meshram** defended his PhD thesis titled *Study on Treatment of Battery Recycling Unit Wastewater by Batch and Continuous Adsorption Process* on 22nd Dec., 2021, under the supervision of **Dr. C. Thakur** Assistant *Professor, Department of Chemical Engineering (DCE)* and **Dr. A.B. Soni,** *Professor, DCE.*
- **Mr. Rupesh Kumar** defended his PhD thesis titled *Magnetic Properties of Metal-Organic Framework Materials* on 23rd Dec., 2021, under the supervision of **Dr. K. A. Siddiqui,** *Assistant Professor, DOC.*
- **Mr. K Dhananjay Rao** defended his PhD thesis titled *Fractional Calculus-Based Modeling and Characterization of Energy Storage Devices* on 27th Dec., 2021, under the supervision of **Dr. S. Ghosh,** *Associate Professor, EE.*
- **Mr. Kaushlendra Sharma** defended his PhD thesis titled *Path Planning and Coordination Techniques for Robots using Cloud* on 30th Dec., 2021, under the supervision of **Dr. R. Doriya,** *Assistant Professor, IT.*
- **Ms. Vishakha Chourasia** defended her PhD thesis titled *A Novel Approach for Multi-Objective Intelligent and Reliable Framework for VDTNs* on 4th Jan., 2022, under the supervision of **Dr. S. Pandey** , *Associate Professor, IT* and **Dr. S. Kumar** , *Assistant Professor,IT*
- **Mr. Narendra Kumar Rout** defended his PhD thesis titled *Development of Automatic Weight Assignment Approach for Image Features in CBIR System* on 2nd Feb., 2022, under the supervision of **Dr. M. Atulkar,** *Associate Professor, Department of Computer Application* and **Dr. M. K. Ahirwal,** *Assistant Professor, Department of Computer Application.*
- **Mr. Nuruzzama Mehadi Khan** defended his PhD thesis titled *Finite Element Analysis of Smart Laminated Composite Structures Using Zig-zag Theory* on 14th Feb., 2022, under the supervision of **Dr. R. S. Kumar** *Assistant Professor, ME.*
- **Mr. Kasi Raja Rao** defended his PhD thesis titled *Development of High-Performance Oxide Dispersion Strengthened High Entropy Alloys* on 14th Feb., 2022, under the supervision of **Dr. S. K. Sinha,** *Assistant Professor, DMME.*
- **Mr. Prabhat Kumar** defended his PhD thesis titled *Towards Design and Development of Secure and Privacy-Preserving Frameworks for IoT-enabled Networks* on 3rd Mar., 2022, under the supervision of **Dr. R. Tripathi,** *and* **Dr. G. P. Gupta,** *Assistant Professors, IT.*
- **Mr. Prasenjit Biswas d**efended his PhD thesis titled *Design, simulation, and manufacturing of a novel continuous casting equipment for fabrication of Al-based materials*on 8th Mar. 2022 under the supervision of **Dr. S. Das,** *Assistant Professor, DMME.*

Students' Corner

- **Tanushri Pahari,** *4th Sem., DBT* made it to the top 20 of the **Aks Monologue Competition** organised by *Taabiir - The Theatre society of Delhi Metropolitan Education.* The competition was conducted in virtual mode and consisted of two stages.
- **Dr. A. Valabhoju,** *Ph.D. Scholar, EE* has been awarded the CIGRE thesis award 2022 from the **International Council on Large Electric Systems** (CIGRE), a global non-profit organisation in the field of high voltage electricity, Paris France for his Doctoral research work-Ph.D. thesis titled: Electrical Power Transmission Line Protection. **Dr. A. Yadav,** *Associate Professor, EE* guided the thesis work.

CAT 2021

Students of NIT Raipur performed outstandingly well in **Common Admission Test (CAT) 2021**. **Shashwat Awasthi,** *8th Sem., CSE* secured **99.83** percentile, **Amber Agrawal,** *8th Sem., ME* secured **99.6** percentile, **Akansha Agrawal,** *8th Sem., EE* secured **99.12** percentile, **Sanchar Dixit,** *8th Sem, CE* secured **99.05** percentile, **Mohammed Moin Rawani,** *8th Sem., CSE* secured **98.68** percentile and **Anushk Hansraj,** *8th Sem., DMME* secured **98.21** percentile. **Harsh Kumar Agrawal** (*2019/ Electrical*) also secured **99.77** percentile.

GATE 2022

Students of **NIT Raipur** have once again proven their worth by giving a commendable performance in the **Graduate Aptitude Test in Engineering (GATE) 2022**, the results of which were released on 17th Mar., 2022 by **Indian Institute of Technology, Kharagpur.** The students of the Institute brought laurels by securing good ranks in GATE 2022. Team MIRROR congratulates them and wishes them success in the future.

Student	AIR	Student	AIR	Student	AIR
Harshit Kumar (Civil Engineering)	14	Pravesh Nagayach (Mining)	15	Shailesh Kumar Tyagi (Mining)	15
Enjam Yasank (Mining)	33	Hemanth Naradasu (Computer Science)	44	Shantanu Kumar Shukla (Mining)	56
Pyla Pavan Kumar (Mechanical)	63	Sanjit Dhar (Metallurgical and Materials)	75	Lumesh Kumar Dewangan (Metallurgical and Materials)	78
Garvit Pratap Singh (Civil)	82	Shivam Kar (Electronics and Communications)	101	Ashwani Bhardwaj (Mining)	125
Aditya Kumar (Chemical)	159	Arpit Agrawal (Metallurgical and Materials)	221	Pushpendra Singh (Chemical)	284
Neha Modi (Architecture)	291	Atul Jaiswal (Architecture)	291	Abhinav Thaduri (Electronics and Communications)	298
Awinash Patel (Mechanical)	345	Lavanya Polimera (Metallurgical and Materials)	374	Himroz Qureshi (Civil)	384

Innovations

Eco-Friendly Solar Power Juice Cart

A fully solar-powered sugarcane juice machine has been developed in E-Cell. This is designed in such a way that existing Diesel engine based or AC powered sugarcane juice machines can be retrofitted to green energy powered sugarcane juice machines. The setup has been designed and developed under the guidance of **Dr. R. N. Patel**, *Professor in-charge, E-Cell* and his project team consisting **Mr. Vivek Soni, Mr. Abhilash Shrivastava, Mr. Ashish Vishwakarma** and **Mr. Aditya Prakash**.

P300 Speller System

Researchers of NIT Raipur have developed a Devanagari script based P300 speller. The detection of character of interest from potentials (P300s) in EEG. For this novel deep learning network has been developed, which precisely detects the P300, followed by the character in almost 2 seconds from the visual stimulation. This is designed under the guidance of **Dr. N. D. Londhe,** *Associate Professor, EE* and **Mr. Ghanshyam**, *PhD Scholar, EE.*

Silkworm to Synthetic Skin

A Cost-effective natural dressing material has been prepared out of silk fibroin derived from tussar silk cocoon or silkworm by **Dr. A. Bit,** *Assistant Professor, DBE* and **Ms. S. Gupta**, *PhD Scholar, DBE.* This dressing material is effective in healing the wound in 14 days in normal patients and 21 days in diabetic patients. Due to its composition, it will reduce the risk of infection during wound healing.

Club/Committee Activities

National Environment Youth Parliament 2022

Go Green Club, NIT Raipur organised the **National Environment Youth Parliament 2022** on 12th Jan., 2022, under guidance of **Dr. D. C. Jhariya**, *Professor In-charge, Go Green* with a motive to nurture the environmental leaders to protect our ecosystem. A group discussion on the Depletion of Natural Resources was successfully organised to bring awareness to combat resource degradation. In this competition, **Suparna Bitasoka**, *6th Sem. M. Tech, Department of Applied Geology(DAG)* and **Muskan Tripathi**, *5th Sem., Department of Mining Engineering* bagged the first and second positions respectively.

Coding Contest 4.0

Turing Club of Programmers (TCP), NIT Raipur, organised an **Online Coding Competition** on 24th Dec., 2021, to encourage students to gain proficiency in coding and develop

their skills. It was organised under the guidance of **Dr. P. K. Mishra**, *Professor In-charge*, *TCP*. It was organised on the online platform **HackerRank.** Participation was open for all 1st, 2nd and 3rd-year students and the top performers were awarded cash prizes worth Rs. 8000.

30 Days of Coding Challenge

Turing Club of Programmers, NIT Raipur organized the 30 Days of Coding challenge, which started on 12th Feb. 2022. The event coordinator was **Dr. P. K. Mishra**, *Professor In-charge, TCP*. The challenge was exclusive for first-year students. Those who were able to solve the problems consistently for 30 days were declared winners of this challenge and awarded with a cash prize of Rs. 8,000.

Code with TCP

Turing Club of Programmers (TCP), NIT Raipur organised an online session named **Code with TCP** under the guidance of **Dr. P. K. Mishra**, *Professor In-charge*, *TCP*. Club organised the first and second parts on 26th Dec., 2021 and 2nd Jan., 2022. It was successful in introducing the world of programming languages and competitive coding to the first-year students.

Interview with TCP

Turing Club of Programmers (TCP), NIT Raipur, organised an event named **Interview with TCP** for the batch of 2023 from 28th Jan. to 3rd Feb., 2022 under the guidance of **Dr. P. K. Mishra**, *Professor In-charge*, *TCP*. The aim was to prepare the students for their upcoming interviews for placements. Under this program, one-to-one Mock Interview Sessions were organised virtually, in which the experienced students of the 2022 batch interviewed the candidates from the batch of 2023 to provide them with various practical tips and shared their interview experiences.

Annual Hackathon CodeUtsava 5.0

The 5th edition of **CodeUtsava - The Code Festival** was organized by the **Turing Club of Programmers of NIT Raipur**. An annual 28 hours Hackathon was conducted on 27th Feb., 2022. **Dr. S. Bajpai,** *Head, Career Development Cell (CDC), NIT Raipur,* was the chief guest of the inauguration ceremony, which was conducted on 26th Feb., 2022, in virtual mode. This event was coordinated by **Dr. R. Tripathi,** *HoD*, *IT,* and **Dr. P. K. Mishra,** *Faculty In-charge, TCP*. The Hackathon received more than 1000 registrations, out of which 25 teams were shortlisted based on their ideas. Team Hard Coders won the contest, while the Team Daily Debugger and Immortals grabbed the 2nd and 3rd positions. The category winners were FITR, H20, Griffins, Dark Coders, and JavaCryptXD. In addition, some fun events like 'Codease', the shortest code writing competition, 'Unkahi', an open mic session in collaboration with Abhinay, the Dramatics Club of NIT Raipur, and the Valorant tournament prelims were also conducted to galvanize the event. The top-performing teams were awarded cash prizes of Rs. 70,000, and they stood a chance to be nominated for Smart India Hackathon 2022 at the national level.

The Constitutional Video Show

Abhinay- The Dramatics Club, NIT Raipur staged a virtual act on 27th Jan., 2022, The main aim of the show was to make the students aware of various changes made in the Constitution since its enactment and their responsibilities towards upholding its integrity. The best performers of this show received prizes. The event coordinator was **Dr. G. Bhatt,** *Professor In-charge, Abhinay.*

Tech-Talk
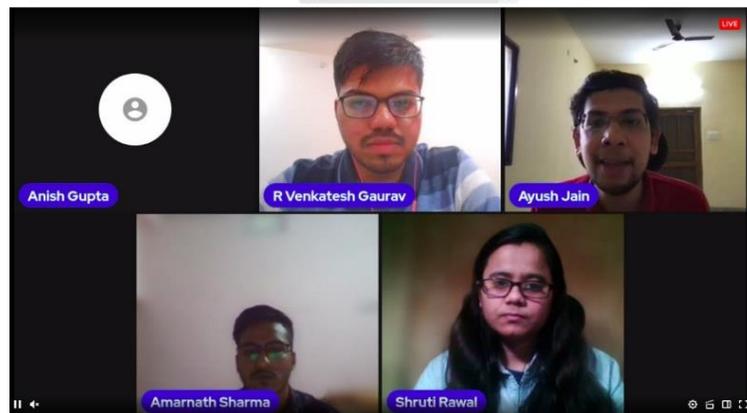
Turing Club of Programmers, NIT Raipur organised a **Tech Talk Series** on various topics**.** The first topic was **Innovation and Placements** in product-based software companies such as Google, Amazon, Adobe, Microsoft, etc. Speakers of the first tech talk were **Mr. A. Sharma** and **Mr. A. Jain,** *Software Engineers, Google.* Second talk was organised on **Data Science** on 20th Feb., 2022. **Mr. S. Hussain,** *Data Science Expert and Industry Leader, Manager of Data Science, Trafigura and Co-Founder of Data Science Lead at Heuristech Labs,* was the speaker of Tech-Talk 2. Third talk was organised on **Open-Source Contribution and Google Summer of Code** on 6th Mar., 2022. **Mr. J. Prasad**, *a former contributor of Australian Open-Source software innovation and education* was the speaker of this event. This series was organised under the guidance of **Dr. P. K. Mishra**, *Faculty In-charge, TCP*.

Smack-D-Bug and Case Ops

Technocracy - The Technical Committee, NIT Raipur conducted two technical contests: **Smack-D-Bug 2.0** and **Case Ops 2.0** from 25th Feb. to 1st Mar., 2022, providing a platform for budding minds to compete with the best, showcase their technical prowess and explore the latest fields of technology. More than 1500 applications were received for this competition from various colleges. The competition was held under guidance of **Dr. S. Bhowmick**, *Professor In-charge, Technocracy*.

Unkahi 14.0- The Open-Mic Session

Abhinay- The Dramatics Club, NIT Raipur, conducted an online open-mic session **Unkahi 14.0** on 6th Feb., 2022, to give students a platform to showcase their talents like singing, poems recitation, storytelling and stand-up comedy in front of the audience. The event coordinator was **Dr. G. Bhatt,** *Professor In-charge, Abhinay.*

Matribhasha Mahotsav 2022

Rajbhasha Samiti, NIT Raipur organized a series of competitions on **Matribhasha Mahotsav 2022** on 21st Feb., 2022. The competitions included poetry writing, poster making and a Quiz round to keep the participants entertained. The event was organised under the guidance of **Dr. S M Saini**, *Professor In-charge, Rajbhasha Samiti.*

International Year of Millets 2023

Team NSS, NIT Raipur, on 12th Feb., 2022, conducted an online awareness and informative session on the topic *International Year of Millets 2023*- declared by the United Nations. The session was organised under the guidance of **Dr. G. Bhatt**, *Professor In-Charge, NSS NIT Raipur.* **Dr. M. K. Bal**, *Senior Program Manager of the Foundation for Ecological Society,* was the event's keynote speaker.

Career Counselling Seminar

Sahyog - The Mentorship Club, NIT Raipur, organised **Career Counselling Seminars** for the aspirants of Common Admission Test (CAT) and GATE on 30th Jan., 2022 and 20th Feb. 2022, respectively. The guest speakers for this CAT event were **Ayushman Dubey**, *IIM Ahmedabad (2019 Batch)*, **Mahima Dighraskar**, *IIM Bangalore (2018 Batch)* and **Amrita Mishra**, *4th sem., IIM Calcutta*. And for GATE event were **Mrinal Dewangan**, NHAI Pune (AIR 7), **Prabhjot Kaur, NTPC** (AIR 417), **B. Vinith,** TSO BARC (AIR 1), **Ayush Pandey,** NMDC (AIR 21). The seminar's objectives were to take the students on the path of success and enable them to know more about the CAT and GATE examination, addressing the queries of the candidates.
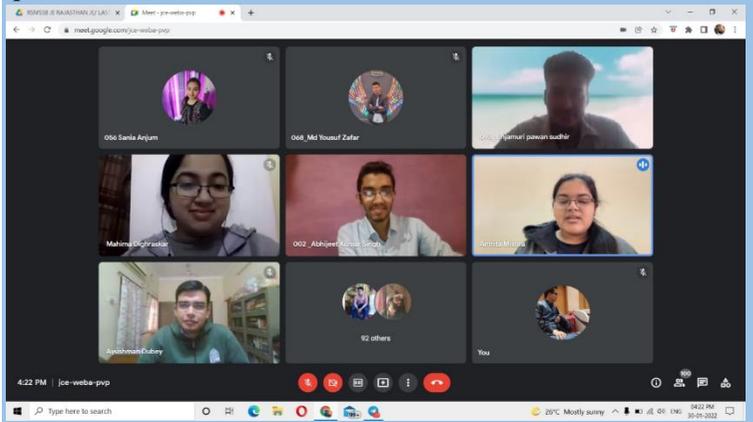
Talk Session on World Hearing Day

Sahyog- The Mentorship Club, NIT Raipur, organised an online talk session on **World Hearing Day** in collaboration with **AIIMS Raipur** on 2nd Mar. 2022, under the guidance of **Dr. R. Jade**, *Professor In-charge, Sahyog.* **Dr. P. Y. Dhekne,** *Dean, Student Welfare,* **Dr. N. M Nagarkar**, *Director, AIIMS Raipur and AIIMS Bhopal* and other professors from AIIMS Raipur were present in the session. **Dr. R. Arora**, *Additional Professor, AIIMS Raipur,* **Dr. P. Sahu,** *Lecturer, Speech and Hearing, AIIMS Raipur*, **Dr. R. Mehta**, *Additional Professor, AIIMS Raipur* and **Dr. N. M Nagarkar**, delivered a series of lectures related to the topic.

Poster Making and Article Writing Competitions

Team NSS, NIT Raipur organised a **Poster Making** and an **Article Writing** competition from 26th Jan., to 30th Jan., 2022 on the topic **Importance of Good Nutrition**. The event was conducted to celebrate a resolution recently adopted by the **United Nations General Assembly** declaring **2023** as the **International Year of Millets**. The event was conducted under the supervision of **Dr. G. Bhatt**, *Professor In-charge, NSS*. For the article writing competition, **Aman Kumar, Raja Babu** and **Smita Prajapati** secured the first, second and third positions respectively. For the Handmade posters category, **Anwesha Ghosh** and **Vishal Murmu** achieved the first and second ranks respectively, while **Pranjali Shrivastava** and **Shubham Gabel** won the first and second prizes in the digital posters category.

New Year's Bash

Nrityam- The Dance Club, NIT Raipur celebrated New Year's Day by organising an online **New Year Bash** on 1st Jan., 2022. The event was coordinated by **Dr. M. Singh**, *Faculty In-charge, Nrityam*. Various awards were presented in numerous categories, and the celebration ended with an engaging dance battle.

Online workshop on Data analytics

Innovation Cell (I-Cell) and Entrepreneurship Cell (E-Cell), NIT Raipur, organised a five-day virtual workshop on **Data Analytics** from 7th to 11th Feb., 2022. This series was organised under the guidance of **Dr. S. Gupta**, *Professor In-charge, I-Cell*, and **Dr. R. N. Patel**, *Professor In-charge, E-Cell*. The speaker for the series was **Dr. S. Velankar**, *Professor, Vidhyalankar Institute of Technology.* The workshop started with very basic analytics and programming in python, covering the various intermediate and advanced topics.

Web Development workshop

Innovation Cell and Entrepreneurship Cell, **NIT Raipur** jointly conducted a five-day online series of i-Talk from 14th to 18th Feb., 2022. The i-Talk series was organised under the guidance of **Dr. S. Gupta**, *Professor In-charge, I-Cell*, and **Dr. R. N. Patel**, *Professor In-charge, E-Cell.* The focus of the series was Web development. The speaker of the i-Talk series was **Mr. K. Pisda**, (2020 batch), back-end developer, Goldcast. He was the winner of the Smart India Hackathon 2019. In the i-Talk series, the students were introduced to several technologies which are helpful in front-end web development..

Workshop on Internet of Things

Innovation Cell and Entrepreneurship Cell, **NIT Raipur** jointly conducted the third week of the i-Talk series on the Internet of Things from 28th Feb., to 4th Mar., 2022 in virtual mode. The event was organized under the guidance of **Dr. S. Gupta**, *Professor In-charge, I-Cell*, and **Dr. R. N. Patel**, *Professor In-charge, E- Cell*. The speaker of the i-Talk series was **Mr. S. Kumar**, *Head, Innovation and IPR in Amity Innovation and Design Center, Amity School of Engineering & Technology, Amity University, Uttar Pradesh.*

Hackathon HackNITRR

The 1st edition of **HackNITRR'22** was organized by the **Entrepreneurship Cell, NIT Raipur,** on 5th and 6th Mar., 2022, under the guidance of **Dr. R. N. Patel,** *Professor In-charge, E-Cell.* In subsequent rounds, the Hackathon witnessed 41 teams narrowed down to 18 and 8. Team Alien_Hearts won this contest, while Team 404 Not Found and LazySingletons seized the 2nd and 3rd positions.
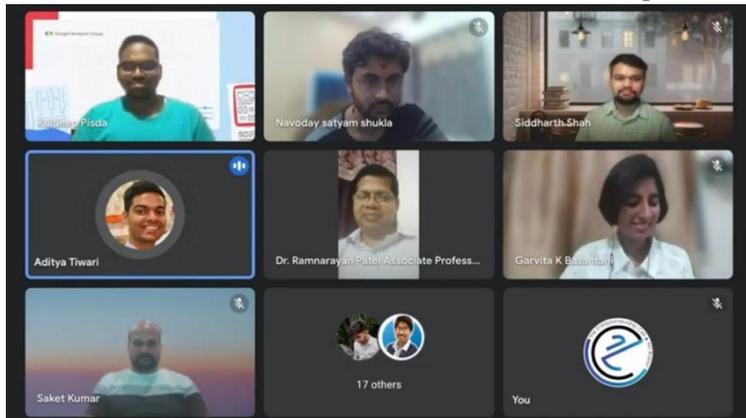
Session on Solving Case Studies

Entrepreneurship Cell, NIT Raipur organised a virtual session on **Strategies for Solving a Case Study** on 16th Mar., 2022 under the guidance of **Dr. R. N. Patel**, *Professor In-charge, E-Cell.* The speakers consisted of **Shashwat Awasthi**, *ZS Case Study Challenge Winner* along with **Amber Agarwal, Kunwar Hardik, Arpita Shrivastava** and **Shahshwat Jha**, *on-campus offer-holders* and presented the actual approach taken to solve the ZS Case Study Challenge of 2021. In the end, **E-Cell** declared **Finance Club** as a branch of E-cell.

Orientation webinars in Architecture

The Association of Students of Architecture Raipur (ASAR) conducted two orientation webinars on 28th Feb., and 5th Mar., 2022. The first webinar was held on **Orientation Towards Training, placement, and Professional practice** for the 6th, 8th, and 10th Semesters students to get insights into the method and prerequisites to apply to architectural organisations in India and abroad. The second webinar was held on **Guidance for GATE** for the students to get insights from the alumni for preparing for GATE, CEED, and other examinations. **Ms. P. Golchha,** *2019/Arch* (GATE 2020, AIR-8) guided the students.

Surya Namaskar

Surya Namaskar Program was conducted in the Institute on 14th Jan., 2022 at 07:15 AM by virtual session. The session started with the introduction and the importance of Makar Sankranti festival. In which its importance was highlighted from the religious, astronomical, and Ayurvedic point of view by **Dr.**

M. Shukla, *Faculty of Yoga, DHSS*. The event was organised under guidance of **Dr. P. Y. Dekhne**, *Dean Student welfare*.

Motosports

Motosports Club, NIT Raipur conducted an online **Orientation and Training Workshop** on 12th and 13th Mar. 2020 to guide the Automobile Enthusiasts of the College. The workshop was conducted under the Banner of **Institute Innovation Council**. The event's coordinator was **Dr. S. Bhowmick**, *Professor In-charge, Motosports*.

E-SHRUTI'22 organised

Raaga - The Music Club, NIT Raipur organised their Annual Musical Concert, **E-SHRUTI'22,** on 12th Mar., 2022 in virtual mode. The event was organised under the guidance of **Dr. S. Sanyal**, *Professor In-charge, Raaga* and **Dr. A. Khare**, *Faculty In-charge, Raaga*. The event began with a tribute to **Late Lata Mangeshkar**, followed by warm wishes by **Dr. S. Sanyal** and **Dr. P. Y. Dhekne**, *Dean, Student Welfare*. Songs of various genres were performed by a total of 27 members of the club.

Folk Song Competition

EBSB Cell, NIT Raipur organized a Folk Song Competition in collaboration with EBSB Cell, Sardar Vallabhbhai National Institute of Technology, Surat. The event was conducted under, Ek Bharat Shreshtha Bharat- the flagship event of the Government of India. The competition was held in two rounds. In first-round 15 candidates were shortlisted. The final live performance round was conducted on 8th Mar., 2022, The event was organized under the guidance **Dr. S. Agarwal**, *Nodal Officer, EBSB NIT Raipur*, **Mr. M. Tenguriya**, *Faculty Incharge, EBSB Cell, NIT Raipur,* **Dr. N. Jariwala**, Nodal Officer, EBSB SVNIT Surat and **Dr. C. Vaghela,** *Faculty Incharge, EBSB Cell,* SVNIT Surat. **Ms. Debjani Das**, *Student, NIT Raipur* and **Mr. Vatsal Margi** *Student, SVNIT Surat* emerged as the winners.

Placement

Campus Placements

NIT Raipur virtually conducted the campus placement for the graduating students of 2021-22. In this year, many reputed firms such as **Amazon, Samsung, TATA Steel, UnitedHealth Group, Reliance, Cognizant, Deloitte, Infosys** and others have hired students from NIT Raipur. Out of the total 830 UG students, 569 students have received on-campus placement offers, with many more opting for off-campus opportunities. In addition, 87 PG students have also received offers from reputed firms. **Adobe**, the multimedia, and

creative software company offered the package of **55 Lakhs Per Annum (LPA)** to 7 students of the Institute. The **average package** for this year's placement was **10.66 LPA**.

- **Shruti Rawal,** *8th Sem., IT* has received multiple worthwhile placements offers from companies like **InfoEdge, Microsoft, Adobe** and **Atlassian**. She did her summer internship at **Adobe** as a *Product Intern* and later received PPO with **55 LPA CTC**. Apart from this, she has also received placement offers from **Atlassian** with **57 LPA CTC**, Microsoft with 42 LPA CTC, and **Infoedge** with **12.5 LPA CTC.**

- **Ashish Kumar**, *8th Sem., IT,* **Ayush Ganguli,** *8th Sem., IT,* and **Anjali Patle**, *8th Sem., CSE* have received placement offers from **Microsoft** with **45 LPA CTC**.
- **Kaushik Mishra,** *8th Sem., CSE,* has been offered **Rs. 2 Cr.** for a full-time position as a Front-end Engineer by the tech mega-giant **Facebook** at the London headquarters in the UK..

Forthcoming Event

Research Scholars' Conclave 2022

NIT Raipur is organizing a three-day **Research Scholar's Conclave** from 28th to 30th Jun., 2022 at NIT Raipur through online/offline mode. This 3-day event is a multidisciplinary Research Conclave for the Ph.D. scholars of the Institute only. It would be an excellent platform for them to present their research findings.

Contribution to the Institution

Donations

NIT Raipur expresses sincere gratitude towards the following people who have made their generous donations to the Institute.

- Mr. Amitava Sur
- Dr. Bidyut Mazumdar
- Mr. R A Narayan
- Mr. Amey Tripathi

Appeal

Ever since its establishment in 1956, the Institute has been serving and maintaining steady progress to achieve a unique feat in the highly competitive area of engineering and technology. To focus on cutting-edge multidisciplinary and frontier areas of engineering and technology as well as innovation-based research, a strong and continuous financial support from alumni, faculty members, students and all well-wishers is the need of the hour. All the stakeholders of the Institute have a major role in building a corpus fund to support various teaching and research infrastructures, and other allied facilities for the welfare of students. NIT Raipur appeals to all alumni, faculty members, students and well-wishers for their contribution to the NIT Raipur Donation Fund. **The financial donation is exempted under section 80G (5) (vi) of the Income Tax, 1961 Vide IT Order Number ITBA/EXM/S/80G/2019-20/1015830613(1) dated 29/04/2019.**

How to Contribute:

The payment may be made either online (https://www.eduqfix.com/OnlineForms/nitrdfform/add).or directly into the bank account of "NIT Raipur Donation Fund".
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